

## CLAIMS

1. A noise suppressor unit (1) for installing and mounting a common mode choke for a noise suppressor onto a circuit board (3), the common mode choke for the noise suppressor comprising a toroid (4) coiled with at least two coils (5), which coils (5) have two coil ends (6),

**characterized** in that the noise suppressor unit (1) comprises

a circuit board holder (7), onto which the toroid (4) is positioned, the toroid being coiled with at least two coils (5),

the circuit board holder (7) comprising connecting plates (8), wherein one coil end (6) at the most is or more coil ends (6) are connected to each connecting plate (8) and wherein the connecting plates (8) are intended to be surface mounted to mounting surface areas in the circuit board (3), and wherein the connecting plates (8) are electrically insulated from each other, and

lifting means (9) for an assembly head or the like of an automatic assembly machine for placing the noise suppressor unit (1) onto the circuit board (3) by the automatic assembly machine or the like.

2. A noise suppressor unit as claimed in claim 1, **characterized** in that the connecting plates (8) are so dimensioned and designed that the toroid (4) is apart from the connecting plates (8).

3. A noise suppressor unit as claimed in claim 1, **characterized** in that each connecting plate (8) comprises an upper connecting plate (10), to which one coil end (6) at the most is connected, and a lower connecting plate (11), which is in an electrical connection with the upper connecting plate (10) and which is intended to be surface mounted to mounting surface areas in the circuit board (3).

4. A noise suppressor unit as claimed in claim 3, **characterized** in that the upper connecting plates (10) are so dimensioned and designed that the toroid (4) is apart from the upper connecting plates (10).

5. A noise suppressor unit as claimed in claim 3, **characterized** in that the lower connecting plates (11) are substantially rectangular.

6. A noise suppressor unit as claimed in claim 1, **characterized** in that it comprises two coils (5) and four connecting plates (8).

7. A noise suppressor unit as claimed in claim 6, **character-**

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ized in that the circuit board holder (7) is substantially rectangular and that each connecting plate (8) is located at one corner of the circuit board holder (7).

5 8. A noise suppressor unit as claimed in claim 1, **character-**  
**ized** in that the connecting plates (8) are made of copper or copper metal.

9. A noise suppressor unit as claimed in claim 1, **character-**  
**ized** in that the lifting means (9) are in the middle opening (12) of the toroid (4)

10 10. A noise suppressor unit as claimed in claim 9, **charac-**  
**terized** in that the lifting means (9) are on the surface of the circuit board holder (7).

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